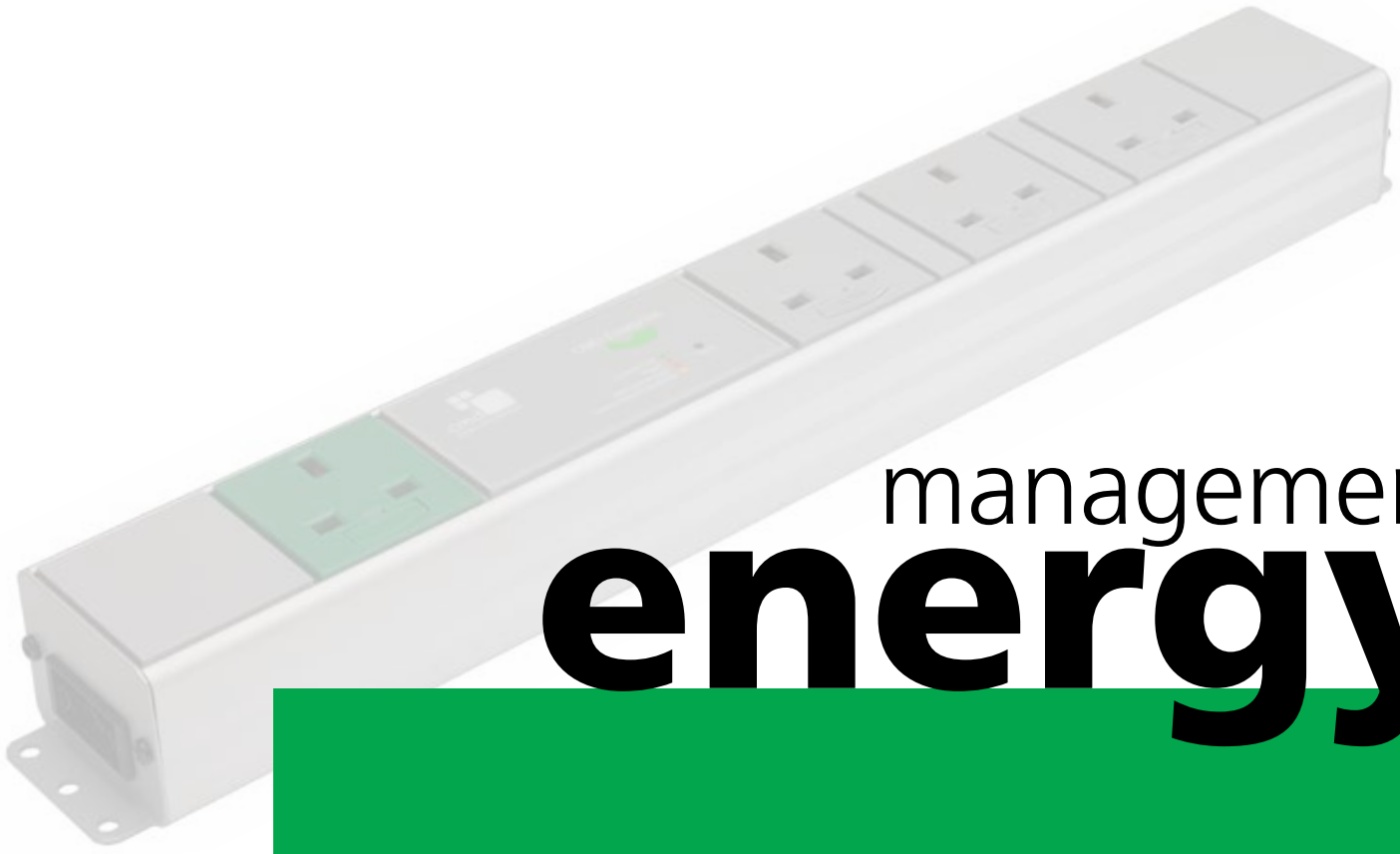

management

energy

The footprint system helps identify ways of reducing power and saving money

Analysis

Footprint records energy usage and presents the information on the dashboard. You can view graphs, make comparisons, and create pdf or csv reports.

Costing

Enter your own rates and Footprint will calculate the running or energy costs for all the equipment being monitored.

Footprint energy management

Control

Different levels of control are available via the dashboard from full automation to manual overrides.

Modules

Modules are built with intelligent smart meter technology, with each module recording the energy usage of any devices plugged in.

Dashboard

The dashboard can be accessed via any standard internet browser, so no requirement for any additional software.

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Footprint energy management

The smart meter

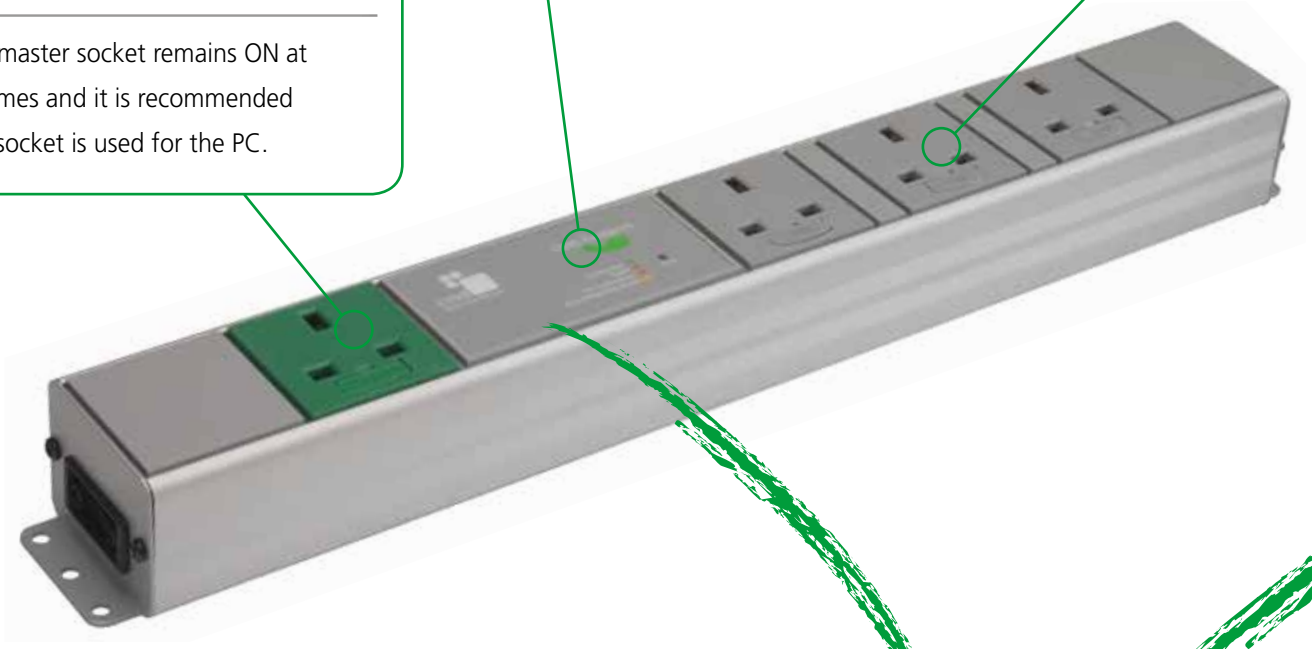
The smart meter is responsible for recording the energy usage of connected appliances.

The auxiliary sockets

The auxiliary sockets can be controlled via the dashboard and switched ON/ OFF either manually or automatically.

The master socket

The master socket remains ON at all times and it is recommended this socket is used for the PC.



The gateway

The gateway is the link between the power modules and the dashboard. Transmitting data and sending instructions. Note: Gateway MAC addresses and PIN numbers, in relation to their location, need to be logged.

energy management

Footprint energy management

The dashboard

Data is sent via the gateway and is displayed in a user friendly format. The dashboard will allow users to schedule, set thresholds, and control all connected modules.

customise me

Build it your way

energy management

*Footprint is sold with a 12 month inclusive licence which includes access to, and exporting of, data together with technical support during office hours. A renewal licence fee will be applicable after the 12 month inclusive period expires. https://dashboard.cmdfootprint.co.uk.

Footprint energy management

Footprint is a system that gives the user total control. Connecting appliances to the Footprint power module will allow users to collate energy usage data, monitor activity levels and schedule power.

1 **The master socket with built in smart meter technology**

The master socket is an uncontrolled outlet. The additional data obtained from this socket can be used to control the auxiliary sockets depending upon the operational mode set. The in-built smart meter measures and transmits highly accurate consumption data which can then be reported on.

2 **The gateway**

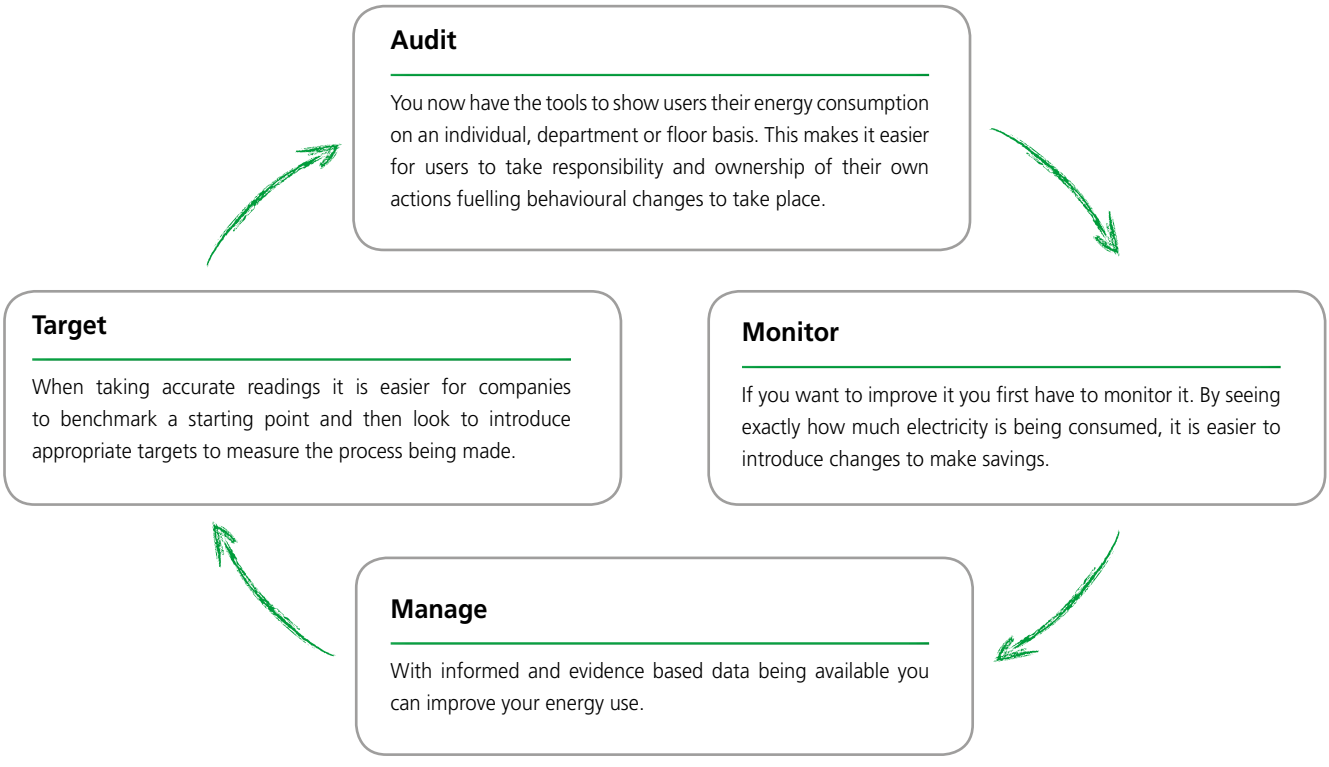
The Gateway is the hub of the system. The gateway sends messages from devices, equipment or web browsers using SSL certificates to encrypt the information that is passed. The SSL certificate provides encryption between the web browser or device and the host server platform and implements 128 bit AES/ TLS encryption for all traffic. The gateways need to be positioned a minimum of 2m from a Wi-fi access point.

3 **The power module**

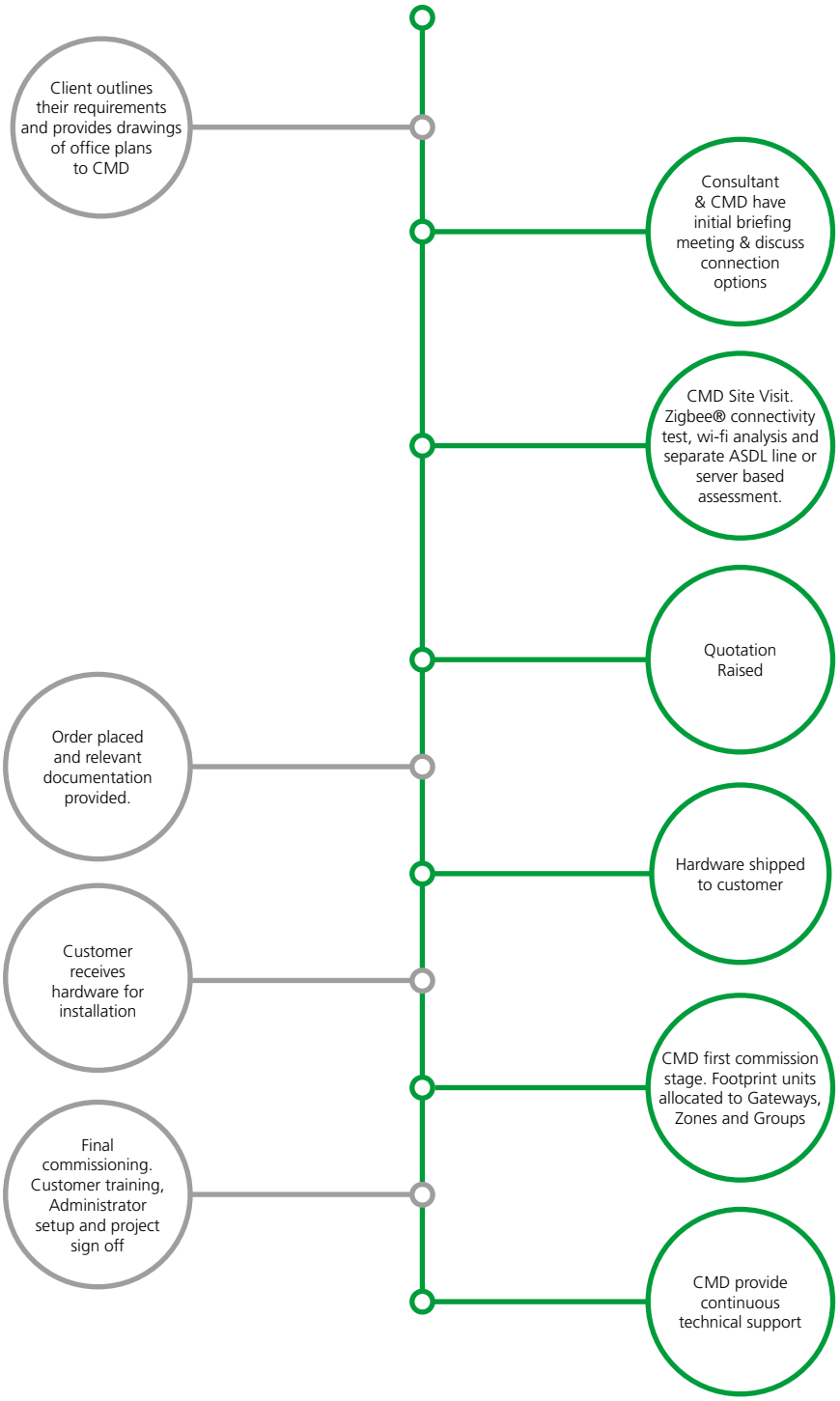
The power module allows users to connect appliances in order to make them smart as well as controllable. Using the recognised low power wireless technology of Zigbee®, the power module communicates to the Gateway allowing for energy monitoring and device control. Zigbee® has been designed for wireless mesh networking enabling hundreds of devices to transmit information to one another in real time. Due to its versatile nature, the mesh network also means that if one device stops transmitting, the system will continue to operate. The power modules are pre-configured to connect to the Gateway with minimal consumer set-up.

4 **The dashboard**

The control centre of operations, the Dashboard will allow different types of users to monitor activities and get involved. The Dashboard will collect energy usage and display it as usable data in the form of expenditure, CO^2, and KWh used. Not only a monitoring tool, the Dashboard allows you to control the entire system.



Footprint energy management



Code	Description
86E304GST	1 x power strip (Standard 1 x Master, 3 x Auxiliary Sockets)
161180*	1 x gateway (POE/Power over Ethernet) *Cat5e cables are needed to route back to the server room.